



# Operating Instructions

## FSX Conveyor belt

D1010387 - V001



English

## Manufacturer

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Please be sure to fill this in before starting. Then you can be sure that this document relates to your machine, so if you have any queries you will be given the correct information.

Machine number:.....

Serial number:.....

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# 1 Foreword

Thank you for buying our product.

This machine has been built in conformity with applicable European standards and regulations.

These operating instructions explain how to operate the machine safely and efficiently and how to maintain it.

Any person entrusted with the transport, installation, commissioning, operation or maintenance of the machine must have read and understood:

- the operating instructions
- the safety instructions
- the safety information given in the individual chapters.

To avoid operator error and ensure problem-free operation, the operating instructions must be available to the operating personnel at all times.

## 1.1 Copyright notice

All documents are protected by the law of copyright.

Documents including excerpts thereof may not be distributed or reproduced nor may their content be communicated without express permission.

## 1.2 Liability for defects

Read these operating instructions through carefully before putting the machine into operation.

We accept no liability for damage or disruptions caused by failure to observe the operating instructions.

Claims for liability must be reported as soon as the defect is identified.

**Claims are null and void for example in the following cases:**

- improper use
- faulty attachments and drives not supplied with the machine
- failure to use original spare parts and accessories
- conversions or modifications, where not agreed with us in writing

**We are not liable for defects of wearing parts.**

## 1.3 Reservations

Technical data, dimensions, illustrations of the machine and safety standards are subject to continual change and are therefore not in any circumstances binding in relation to the supplied machine.

We accept no liability for printing and typesetting errors.

## 1.4 Definitions

**Operator**

The operator is the party which operates the machine and uses it for its intended purpose or causes it to be operated by suitable, trained personnel.

**Operating personnel**

The operating personnel (operators) are those entrusted by the operator to operate the machine.

**Technical personnel**

Technical personnel are persons entrusted by the operator of the machine with special tasks such as installation, set-up, maintenance and troubleshooting.

**Electrician**

An electrician is a person who, by virtue of his specialist training, has knowledge of electrical systems, standards and regulations and is able to identify and prevent possible hazards.

**Machine**

The term machine replaces the commercial designation of the object to which these operating instructions relate (see cover sheet).

## 1.5 Operating instructions

This manual is a "translation of the original operating manual"

## 2 Safety information

### 2.1 Explanation of symbols

The following symbols and instructions in this manual provide warnings about possible personal injury or property damage or give useful information about working with the machine.



#### **DANGER**

##### **Warning about danger zones**

Instruction regarding safe working, where non-compliance entails the risk of serious or fatal injury.

Always observe these instructions and ensure that you work with particular caution and care.



#### **DANGER**

##### **Warning of dangerous electrical voltage**

Contact with live parts can result in immediate death.

Protective covers and enclosures marked with this sign may only be opened by qualified electricians after the electricity supply has been turned off.



#### **DANGER**

##### **Crushing hazard**

Risk of injury through upper limbs getting trapped.



#### **DANGER**

##### **Crushing hazard**

Risk of injury through lower limbs getting trapped.



#### **NOTICE**

##### **Instruction**

Symbol for proper use of the machine.

Non-observance can result in malfunctions by or damage to the machine.

#### **Noise**



Symbol for an area where noise levels can exceed 85 dB(A).

Non-observance can cause hearing problems or deafness.

## Further information



Symbol for further information relating to a bought-in part.

### Information



Action-related information.

## 2.2 General safety information



The machine may only be operated by persons who are familiar with the machine's operation and hazards and with the user manual.

- It is the operator's responsibility to provide appropriate staff training.

Persons under the influence of alcohol, drugs or pharmaceutical products that impair responsiveness must not operate or maintain the machine.

The machine may only be operated if it is in perfect working condition.

Only operate the machine if it is in a stable position.



Minimum age of operative: 18 years.

Only one person may operate the machine at a time.

Take regular breaks to ensure concentration.

Ensure that your workplace is adequately illuminated since poor lighting can significantly increase the risk of injury.

Never work without the protective guards in place.

Only carry out repair, setup, maintenance and cleaning work when the drive is switched off and the tool is stationary.

- If the machine is driven by an electric motor, set main switch to 0 and disconnect the power cable.

Never leave the machine running unattended.

Switch off the machine's drive unit before carrying out any adjustments.

Only use original - POSCH - spare parts.

Do not modify or tamper with the machine.



Work on electrical equipment must only be carried out by qualified electricians.

Never use damaged cables.

Machines with electric motors must not be used in the rain as this can lead to a malfunction of the switch or the motor.

## 2.3 Safety instructions for conveyor belts



Persons must keep clear of the danger zone.

It must be expected that material will be ejected at high speed to any position within this area.

Never reach into the hopper or touch the conveyor belt when the machine is running.

Shut the drive down before removing any jammed pieces of wood.

Wear safety shoes and close-fitting clothes when working with this device.



Only use the machine outdoors.





Wear protective gloves.

The working pressure of the hydraulic system must not exceed 130 bar.

## 2.4 Noise

The workplace-related, A-rated emission sound pressure level is 45 dB(A), measured at the operative's ear.

The stated values are emissions values, and thus do not necessarily represent reliable values for the work area. Although there is a correlation between emission and pollutant levels, it is not possible to deduce reliably from that whether or not additional precautionary measures are necessary. Factors that influence the level of pollutants present in the work area include the individual nature of the work area, other sources of noise, e.g. the number of machines and other work operations being carried out in the vicinity. Equally, permissible values for a work area may vary between different countries. However, this information should enable the user to estimate the dangers and risks more accurately.

## 2.5 Remaining risks

Even if all safety precautions are observed and the machine is used in accordance with the instructions, some risks still remain:

- Touching of revolving parts or tools.
- Injury caused by flying logs or log pieces.
- Risk of burns if the engine is not properly ventilated.
- Hearing loss if ear protection is not worn when working.
- Human error (e.g. due to excessive physical exertion, mental strain, etc.)



With every machine, some risks still remain. Therefore you should always be very careful when working. It is up to the operating personnel to ensure that work is carried out safely.

## 2.6 Proper use

The height-adjustable, swivelling conveyor belt is used to convey logs.

## 2.7 Incorrect use

Any incorrect use or use other than that specified under "Proper use" is expressly forbidden.

## 3 General

### 3.1 Scope

This user manual applies to the following machines:

#### Machine type

Article no. *	Designation - Type	Drive
M8115S	Spezial conveyor belt - 6 m PS SH,NH	Tractor hydraulics
M8125S	Spezial conveyor belt - 8 m PS SH,NH	Tractor hydraulics
M8132S	Spezial conveyor belt - 6 m E4 SM,NM	Electric motor
M8142S	Spezial conveyor belt - 8 m E4 SM,NM	Electric motor
M8165S	Spezial conveyor belt - 6 m E4 SH,NH	Electric motor
M8175S	Spezial conveyor belt - 8 m E4 SH,NH	Electric motor

\*The article number is stamped on the machine's rating plate.

#### Models

##### Additional equipment

F0002425	Towbar (only with swivelling model)
F0002447	Jockey wheels
F0002426	Flow divider

### 3.2 Description

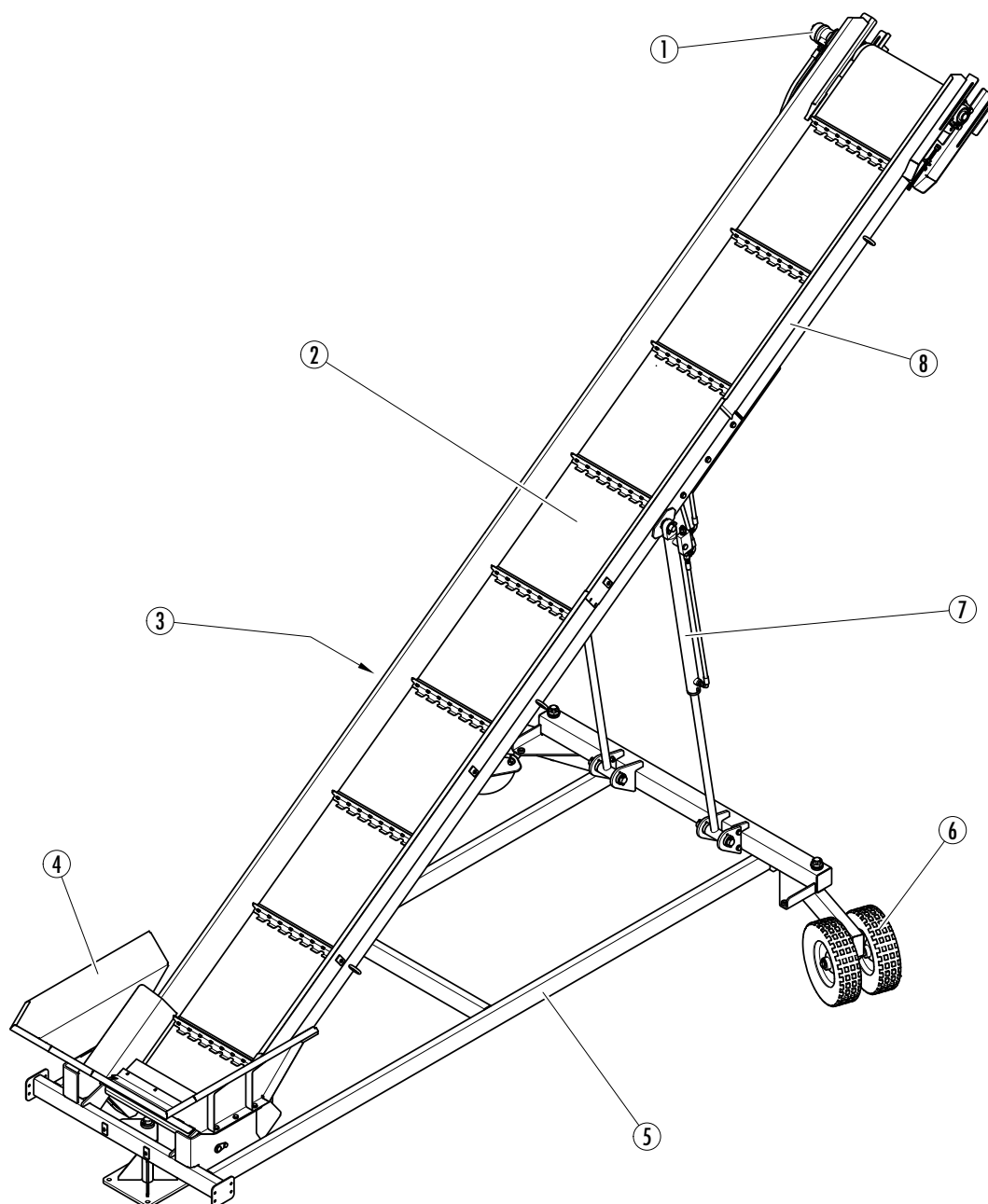
The height-adjustable, swivelling conveyor belt is used to convey logs.

The conveyor belt is placed next to or underneath the machine from which the logs are to be carried away.

The machine is driven by an electric motor or via the tractor's hydraulic system.

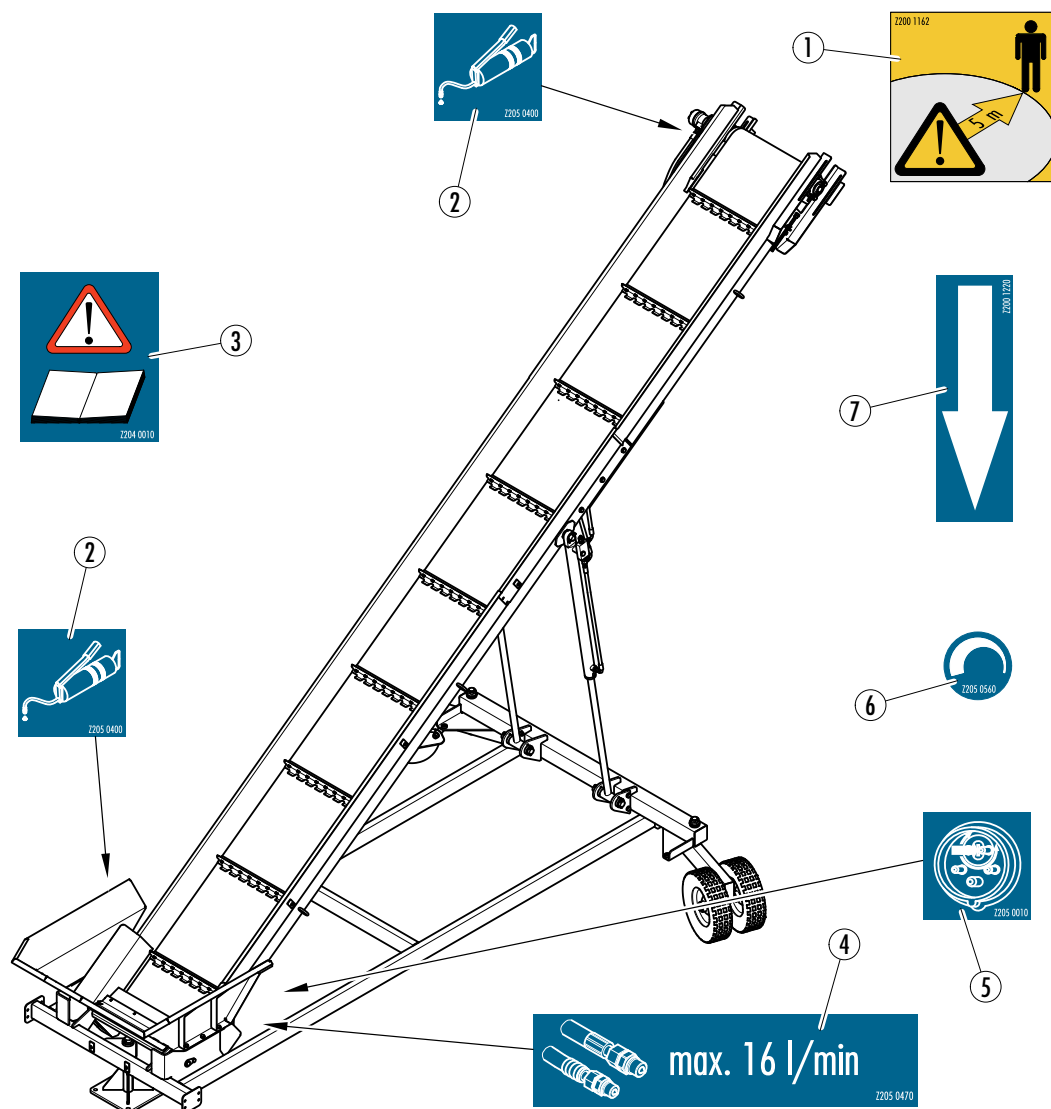
The height and the swivel can be adjusted manually and/or hydraulically.

### 3.3 Major machine components



1	Hydraulic motor for conveyor belt drive	5	Subframe
2	Conveyor belt	6	Wheel
3	Hydraulic motor for swivel drive	7	Tilt cylinder
4	Trough	8	Conveyor belt frame

### 3.4 Stickers and their meaning



1	Danger zone
2	Lubrication point
3	Always read the user manual before operating the machine
4	Maximum efficiency
5	Phase inverter
6	Speed of conveyor belt (on flow divider)
7	Oil flow direction (on flow divider)

## 4 Set-up

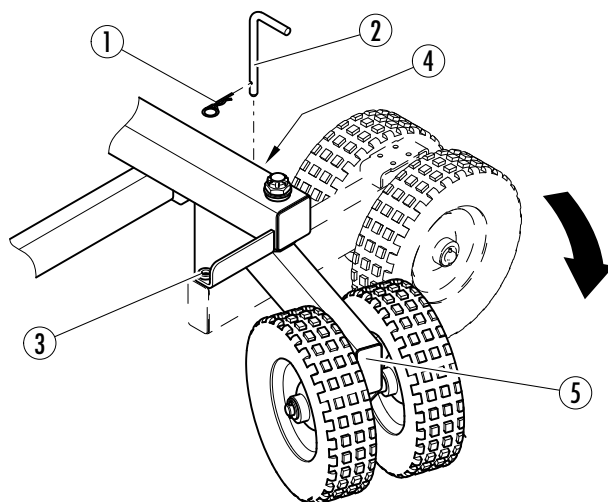


Ensure the machine is stable before starting it.

Set up the machine on a level, firm and clear work surface.

The machine must be placed directly on the ground. Do not place wooden boards, flat pieces of metal etc. underneath it.

### 4.1 Swing wheels



1	Spring cotter	4	Rear fixing hole
2	Cotter pin	5	Wheels unit
3	Front fixing hole		

- Pull out the spring pin.
- Pull the cotter pin out of the front fixing hole.
- Swing the wheels unit to the side until the rear fixing holes align.
- Place the cotter pin through the rear fixing hole.
- Secure the cotter pin using the spring cotter.

## 5 Start-up



Before starting to operate the machine, please check that the protective and safety systems are working and also the hydraulic hoses and oil level.

Before each start-up, the condition of the electrical cables must be checked.

If a fault occurs during operation, the machine must be shut down immediately.

### 5.1 Driven by electric motor (type E)

#### 5.1.1 Machines with 400 V motor

The machine must only be operated on electric circuits equipped with 30 mA FI fault current protection or a Portable Residual Current Device (PRCD).

Work on electrical equipment must only be carried out by qualified electricians.



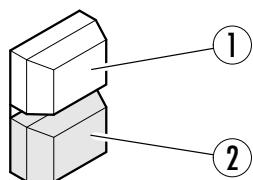
##### Type E4

Connect the machine to the mains:

- Mains voltage 400 V (50 Hz)
- Circuit-breaker 16 A (tripping characteristic C)
- For the feed, a cable cross-section of at least 2.5 mm<sup>2</sup> must be used.

☞ This cable cross-section is only a minimum specification. In the event of a lengthy supply cable, its size must be determined by an electrician.

- Press the green ON button.

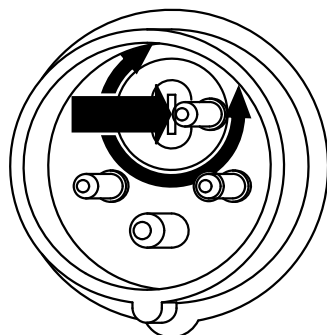


1	Green press button (ON)	2	Red press button (OFF)
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Note the rotation direction of the electric motor (see arrow on motor).

**If the motor is rotating in the wrong direction:**

A phase inverter in the plug controls the direction of rotation of the motor (press in the disc in the plug with a screwdriver and turn 180°).





A tight plug connection can rip the CEE plug out of the switch housing.

- This can be remedied using standard plugs and a silicone spray.

☞ Any such damage to the switch is not covered by the guarantee.

## 5.2 Driven by the tractor's hydraulic system (type PS)

- Connect the hydraulic hoses to the tractor's hydraulic system.
- Turn the control valve on the tractor to the "On" position.

Ensure that the viscosity of the tractor hydraulic oil is compatible with that of the splitter.

- Hydraulic oil HLP M46



☞ Observe the flow and return.

Maximum efficiency of tractor's hydraulic system	Maximum working pressure of tractor's hydraulic system
16 l/min	130 bar

## 6 Operation

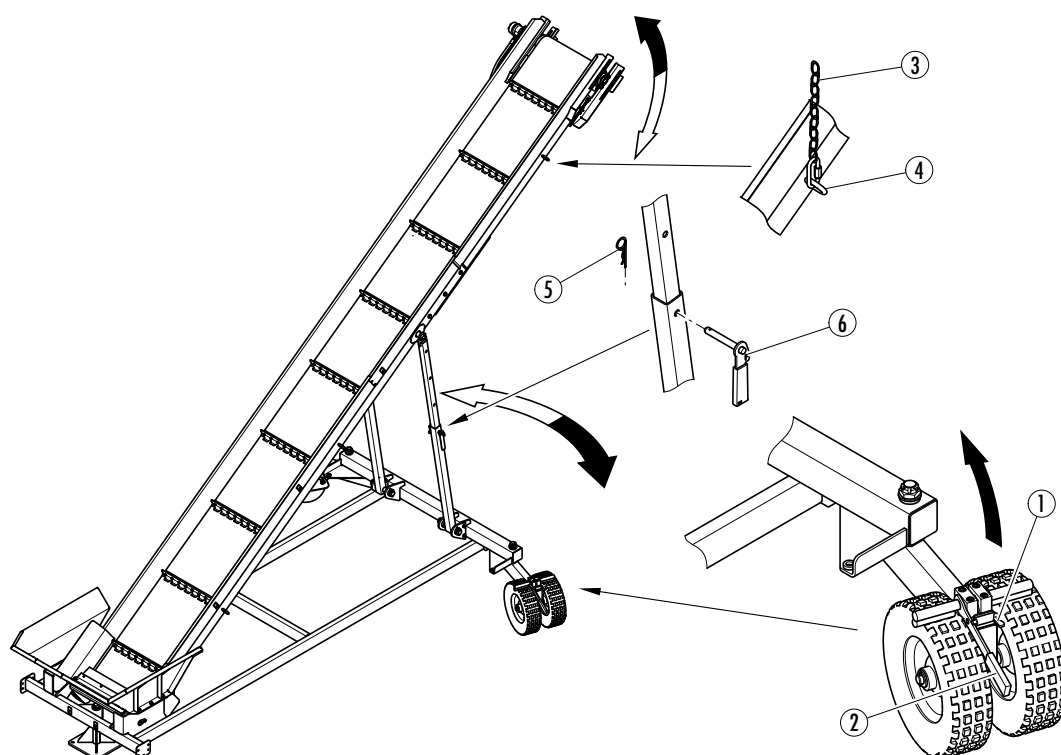
☞ At outdoor temperatures below 0°C, let the machine idle for approximately five minutes to allow the hydraulic system to reach the correct operating temperature (the hydraulic pipes will then be warm to the touch).

### 6.1 Work operation



Only one person may operate the machine at a time.  
Ensure that no other people are in the vicinity of the machine.

#### 6.1.1 Mechanically adjustable



1	Snap-in lock	4	Lifting eye
2	Brake lever	5	Spring cotter
3	Lifting gear	6	Cotter pin

- Open the snap-in lock by turning it.
- Loosen the brake lever by raising it.
- Swing the conveyor belt in the desired direction.
- Slow down the wheels again with the brake lever and secure with the snap-in lock.

Use lifting gear to set the desired working height:

Only lifting gear with the permitted load capacity may be used.

- hold the conveyor belt at the right height using the lifting gear.
- Unlock and remove the connecting pin.
- Lower or raise to the desired height.
- Refasten using the cotter pin.
- Secure the cotter pin using the spring cotter.



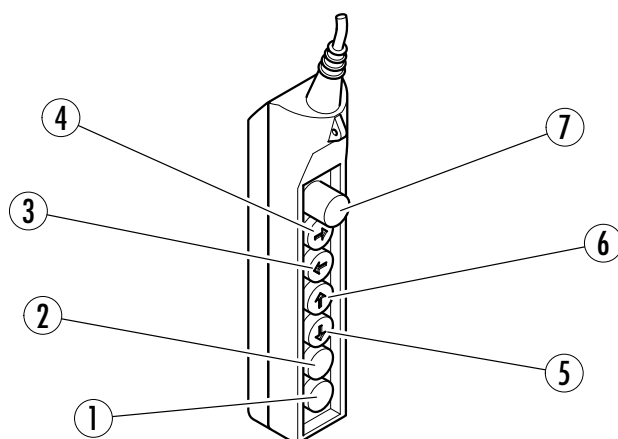


- Start the conveyor belt.
- See: Start-up [→ 14]

## 6.1.2 Hydraulically adjustable

- Start the conveyor belt.
- See: Start-up [→ 14]

### Functions:




1	Red button – Conveyor belt off / return *	5	Button down – Tilt conveyor belt down
2	Green button - Conveyor belt on	6	Button up – Tilt conveyor belt up
3	Button left – Swing conveyor belt left	7	Emergency stop – All conveyor belt functions to "off" **
4	Button right – Swing conveyor belt right		

\* ..... the conveyor belt continues to return as long as the button is pressed.

\*\* .... to start up again the emergency stop must be deactivated by pulling it out.

## 7 Switching off the machine

 Before switching off the machine, depressurise all hydraulic functions by placing all control levers in the neutral position.

### **Driven by electric motor (Type E)**

Move the switch to the **0 position**.

### **Driven by the tractor's hydraulic system (type PS)**

Turn the control valve on the tractor to the "Off" position.

## 8 Checks



Before carrying out any checks on the machine, the drive unit **MUST** be switched off!  
Disconnect the machine from the mains.

- In addition, pull out the plug of the device.

### 8.1 Protective guards



All the protective guards (covers, safety grilles, etc.) must be in place on the machine at all times!

### 8.2 Screw fittings



Tighten all screws and nuts after the first hour of operation.

Tighten the screws and nuts after every 100 hours of operation.

- Replace missing screws and nuts.

### 8.3 Electrical cables

Before each start-up, the condition of the electrical cables must be checked.

- Damaged cables must be replaced immediately.

Work on electrical equipment must only be carried out by qualified electricians.



### 8.4 Hydraulic lines



After the first hour of operation, check that all hydraulic connections are secure and are not leaking.

Check that all hydraulic connections are secure and are not leaking after every further 100 hours of operation.

- Damaged hydraulic lines must be replaced immediately.

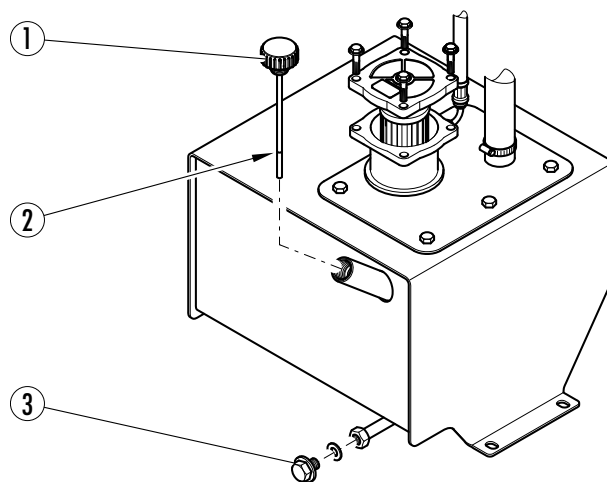
### 8.5 Oil level

To check the oil level place the machine on an even surface.

#### 8.5.1 Hydraulic oil level

When the oil sight glass is filled above halfway, the oil level is at its maximum.

When the oil level is towards the bottom of the oil sight glass, the oil level is at its minimum.



1	Oil dipstick	3	Oil drain screw
2	Markings		

If this is the case, the hydraulic oil must be topped up immediately.

- See: Changing the hydraulic oil [→ 21]

👉 The oil filter only needs to be checked when the oil is changed.

## 8.5.2 Transmission oil level

See ..... Changing the transmission oil [→ 23]

## 9 Maintenance



Before carrying out any maintenance on the machine, the drive unit **MUST** be switched off!  
Disconnect the machine from the mains.

- In addition, pull out the plug of the device.



Work on electrical equipment must only be carried out by qualified electricians.

Never work without the protective guards in place.

Only use original - POSCH - spare parts.

### 9.1 Lubrication

Dispose of oily and greasy parts and oil residues in accordance with legal regulations.

#### 9.1.1 Lubrication schedule

Lubrication intervals	Item	What/where
Weekly (every 40 operating hours - or less depending on application)		Both housing bearings above conveyor belt
		Both housing bearings below conveyor belt

 The lubrication points are marked with the lubricate symbol.

**Recommended lubricating greases:**

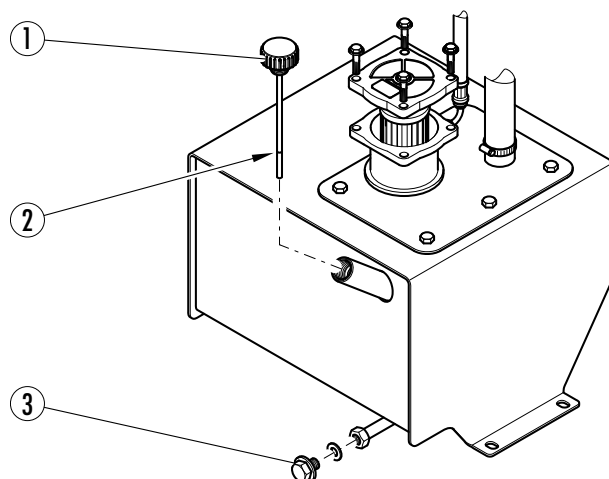
Manufacturer	Type
Genol	Multi-purpose grease
Fuchs	Multi-purpose grease 5028

### 9.2 Oil changing

Old oil must be disposed of in an environment-friendly manner. Find out about the environmental regulations in your country.

#### 9.2.1 Changing the hydraulic oil

The first oil change should be carried out after 500 operating hours, further oil changes should then be carried out after every 1000 operating hours or annually.

**Changing procedure:**

1	Oil dipstick	3	Oil drain screw
2	Markings		

- Remove the ventilation screw.
- Open the oil drain screw.



The oil drain screw is located on the base of the oil tank.

- Drain the old hydraulic oil into a container.
- Screw the oil drain screw back into the tank and fill with new hydraulic oil through the ventilation screw opening.
- Screw the ventilation screw into the tank.
- Turn on the machine and allow it to run for a short while.
- Check the oil level and top up hydraulic oil if necessary.

**Total filling capacity of the hydraulic system:**

Quantity
14 litres

Our hydraulic system is filled with OMV HLP M46 hydraulic oil.  
 High-quality oil is highly recommended when changing the oil.  
 A mixture of products of the same quality poses no problem.

**9.2.1.1 Recommended hydraulic oils**

Manufacturer	Oil specification
OMV	ATF II
SHELL	Donax TA
ELF	Hydrelf DS 46
ESSO	Univis N46
CASTROL	Hyspin AWH-M 46
ARAL	Vitam VF46
GENOL	Hydraulic oil 520
FUCHS	Platohyd 32S * / Renolin B46 HVI

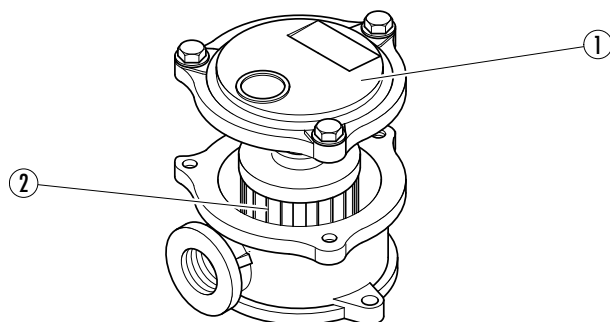
\*.....biological hydraulic oils

## 9.2.2 Changing the transmission oil

The transmission is lubricated for life using a synthetic transmission oil.

If the oil has to be changed or topped up, note that only synthetic transmission oil to ISO VG 320 may be used!

## 9.2.3 Oil filter



1	Filter cover	2	Filter insert
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The filter insert should be changed every time the oil is changed.

Any aluminium particles can be disregarded, as these occur when the pump is running in.

Do not wash out the filter insert with petrol or paraffin products, as these damage it.

## 9.3 Conveyor belt

### 9.3.1 Notes regarding the conveyor belt



Check that the belt is running centrally. The belt drive dogs must not move.

- If they do, the belt must be corrected so it runs centrally by adjusting the drive pulley or return drum.

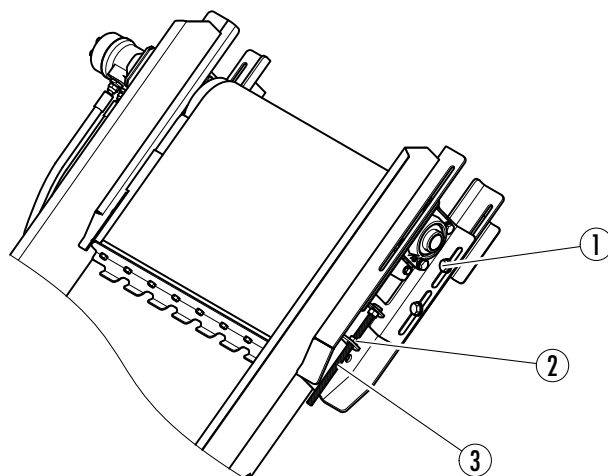
👉 From time to time remove the material that drops down underneath the conveyor belt to prevent damage to the belt drive dogs.

### 9.3.2 Conveyor belt - set central running

If the conveyor belt is not running centrally on the drive and/or tail pulleys, it is possible to adjust the direction of travel.

- Slightly loosen the fastening screws on each side of the conveyor belt.
- Loosen the lock nuts on both tensioning screws.
- Align the return drum by turning the lock nuts.
- Tighten the lock nuts again.
- Tighten the fastening screws on both sides.

### 9.3.3 Tension conveyor belt



1	Fastening screw	3	Tensioning screw
2	Lock nut		

The conveyor belt may become slack over time as a result of wear and tear. If this happens, the belt must be retensioned.

- Loosen the lock nuts on both tensioning screws.
- Tension the upper part of the conveyor belt by tightening both tensioning screws evenly.
- After the belt has been tensioned sufficiently, lock the tensioning screws again using the lock nuts.

## 9.4 Cleaning



Before carrying out any cleaning work on the machine, the drive unit **MUST** be switched off!

Disconnect the machine from the mains.

- In addition, pull out the plug of the device.

Clean the machine regularly to ensure proper operation.

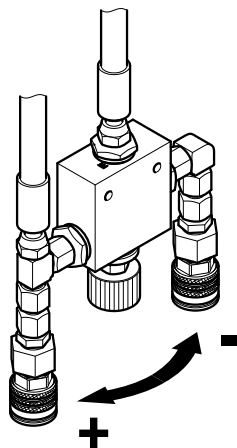
Only wash new machines (during the first 3 months) with a sponge.

- The paint is not yet completely set, so cleaning with a high pressure cleaner may damage the finish.



## 10 Additional equipment

### 10.1 Flow divider



The flow divider is used to set the speed of the conveyor belt.

To be placed between the tractor and the conveyor belt.

- **Increase speed:** Turn flow divider to the left.
- **Reduce speed:** Turn flow divider to the right.

# 11 Troubleshooting



Before carrying out any troubleshooting operations on the machine it is essential to switch the drive off.

Disconnect the machine from the mains.

- In addition, pull out the plug of the device.



Work on electrical equipment must only be carried out by qualified electricians.

Fault	Possible cause	Remedy	See page
<b>Electric motor fails to start or switches off frequently</b>	Faulty power supply cable	Have the cable examined by a specialist	See [→ 14]
	Fuses keep tripping - incorrectly rated fuse for power supply cable	Use correctly-rated fuses	
	Motor circuit breaker tripped	Use stronger power supply cable	
	Direction of rotation wrong	Swap over two phases	
<b>Switch does not work</b>	Faulty power supply cable	Have the cable examined by a specialist	See [→ 14]
	Fuses keep tripping - incorrectly rated fuse for power supply cable	Have the cable examined by a specialist	
	Contactor or motor circuit breaker faulty	Have switch checked or send it in	
<b>Hydraulic oil getting too hot</b>	Not enough hydraulic oil in hydraulic system	Check hydraulic oil level	See [→ 19]
	Poor quality hydraulic oil	Change hydraulic oil	See [→ 21]
	Oil filter unclean or blocked	Change filter insert	See [→ 23]
<b>Machine loses power</b>	Hydraulic oil getting too hot	See "Hydraulic oil getting too hot"	
	Not enough hydraulic oil in hydraulic system	Change hydraulic oil	See [→ 21]
<b>Machine is noisy</b>	Oil filter unclean or blocked	Change filter insert	See [→ 23]
<b>Conveyor belt jerks or does not move</b>	Not enough hydraulic oil in hydraulic system	Check hydraulic oil level	See [→ 19]
	Poor quality hydraulic oil	Change hydraulic oil	See [→ 21]

## 12 Technical data

Type		6 m PS SH,NH	8 m PS SH,NH	6 m E4 SM,NM
<b>Drive</b>				
Drive type		Tractor hydraulics	Tractor hydraulics	Electric motor
Output	kW	15	15	4 S6 **
Voltage	V	-	-	400
Fusing	A	-	-	16
Max. efficiency	l/min	16	16	-
Max. pressure	bar	130	130	-
<b>Conveyor data</b>				
Min. conveyor height	cm	255	325	255
Max. conveyor height	cm	390	502	390
Tilt	degrees	22° - 36°	22° - 36°	22° - 36°
Belt width	cm	55	55	55
<b>Dimensions *</b>				
Length	cm	670	870	670
Width	cm	230	230	230
Height	cm	280	350	280
Weight	kg	800	960	805

Type		8 m E4 SM,NM	6 m E4 SH,NH	8 m E4 SH,NH
<b>Drive</b>				
Drive type		Electric motor	Electric motor	Electric motor
Output	kW	4 S6 **	4 S6 **	4 S6 **
Voltage	V	400	400	400
Fusing	A	16	16	16
Max. efficiency	l/min	-	-	-
Max. pressure	bar	-	-	-
<b>Conveyor data</b>				
Min. conveyor height	cm	325	255	325
Max. conveyor height	cm	502	390	502
Tilt	degrees	22° - 36°	22° - 36°	22° - 36°
Belt width	cm	55	55	55
<b>Dimensions *</b>				
Length	cm	870	670	870
Width	cm	230	230	230
Height	cm	350	280	350
Weight	kg	970	810	970

\*.....The stated dimensions and weights are for guidance purposes and apply to the basic equipment.

\*\*.....Power rating S6: continuous-operation periodic duty with related load changes – the percentage value is shown on the rating plate.

## 13 Service

### POSCH- Product

To order spare parts for your machine please contact your local dealer directly.

👉 If you require a replacement parts list for your machine, you can download this at any time by entering the serial number at the following link:

[www.posch.com/download](http://www.posch.com/download)

# EC Declaration of Conformity

We hereby declare that the following machine, its design and manufacture, comply with the health and safety requirements of the EC Machinery Directive 2006/42/EC.

The machine furthermore complies with the EC Low Voltage Directive 2006/95/EC and the EC Electromagnetic Compatibility (EMC) Directive 2004/108/EC.

This Declaration is not valid for any modifications to the machine which are not approved by us.

## Conveyor belt - Spezial conveyor belt

Item no.: M8115S , M8125S, M8132S, M8142S, M8165S, M8175S

Serial no.: from 1,001,001A

To implement the health and safety requirements mentioned in the EC Directives, the following standards are applied:

- EN ISO 12100 Safety of machinery - Basic concepts, general principles for design
- EN ISO 13857 Safety distances to prevent hazard zones being reached by upper and lower limbs
- EN 349 Minimum gaps to avoid crushing of parts of the human body
- EN 60204-1 Electrical equipment of machines
- EN ISO 4413 Safety requirements - Hydraulics
- EN 620 Continuous handling equipment and systems

Internal measures ensure that this series of devices always complies with the requirements of the EC Directives and the applied standards.

Below is the name and address of the person who signs the above EC Declaration of Conformity and is authorised to compile the technical documentation.

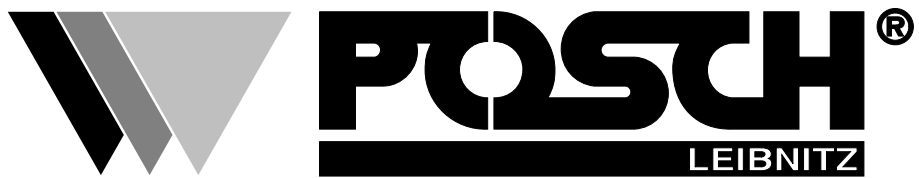
Leibnitz, date:  
05.01.2010  
  
Ing. Johann Tinnacher  
Managing Director



Posch  
Gesellschaft m. b. H.  
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Your Posch-Dealer